# ENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| | Breadth 5 | Depth 6 | 7 | 8 |

Vr No. 27 Date 25.05.13
Cheq No. 623653 Date 25.05.13
Amount Rs. 7,84,484=00

Paid
Asst. Engineer
B.T. Purie Division
E.M.P.

AEE/KSD/SBR/205/15-16
dt - 28/3/16

I St Ee final

BR-291
31-03

# M.A.R. 57 (Rule 116)

Measurement Book No. A/10 81357

Serial No. Improvements to roads & behind Appaji swamy Temple Jakkur layout in ward no. 7, Yelahanka

Name of work..... From..... To.....

Name of Contractor of nature of Agency..... Gnanendra Reddy, Bangalore

Date of commencement of work..... 10-12-2014

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Estimate cost: Rs. 10.00 lakhs. | | | | | | |
| | ~~TS~~ No: 007-15-00001 # | | | | | | |
| | AS No. AS/EE/1139/14-15 dtd 29.10.14 | | | | | | |
| | TS No. TS/EE/113/14-15 dtd 29.10.14. | | | | | | |
| | WO No. EE/AE1/BBMP/E-PH/7/236/2014-15 dtd 23-01-2015 | | | | | | |
| | Measurement recorded on: 28-03-2016 | | | | | | |
| 1) | Earthwork excavation by mechanical means in hard soil, excavated surface levelled & sides neatly dressed, dispersed earth to be levelled neatly after breaking if clods etc complete as directed. | | | | | | |
| | Qty vide item no (1) | | page 81397 (sub total-1) | | | 50.54 | cum |
| | Qty vide item no (1) | | page 81398 (sub total-2) | | | 382.74 | " |
| | Qty vide item no (1) | | page 81577 (sub total-3) | | | 483.37 | " |
| | | | | | total | 916.65 | cum |
| | | | | | 50 | 48.50 | cum |
| | | | Limited to 40.104.78/- | | | = Rs | 5061.00 |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| (c) | Lead for disposal of debris shall be paid at the carriage rates by mechanical means or directed | | | | | | |
| | Qty vide Item No. (6) | 1 | 81397 | - | - - - | 916.65 cum | |
| | | | | | Limited to | 869.88 cum | |
| | | | | | | @ Rs. 80.00/- - - = Rs | 69756.00 = |
| 2) | Excavation by manual means in ordinary soil including breaking of clods, spreading to required line & level, forming Ex cost of all labour etc complete. | | | | | | |
| | Qty vide Item No. (2) of page 81398 of MB - - - | | | | | 50.54 cum | |
| | | | | | Limited to | 48.30 cum | |
| | | | | | | @ Rs. 96.23/- - - - - = Rs | 4648.00 = |
| 3) | Compaction of original ground with vibratory roller including filling in depressions occurring during rolling etc complete. | | | | | | |
| | Qty vide Item No. (3) of page 81398 of MB - - - | | | | | 505.50 Sqm | |
| | | | | | Limited to | 69.00 Sqm | |
| | | | | | | @ Rs. 4.44/- - - - - Rs | 306/- |

M.

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Nu |
|---|---|---|
| 1 | 2 | |
| 4) | Extra for watering the cpto required optimum moisture content of all | |
| | Qty vide Item No. (4) of | |
| 5) | Providing & laying in position with ready mixed, concrete M20 grade, cost | |
| | Qty vide Item No. (5) | |

OOK

| dth | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|
| | ...perable at or directed | | |
| | ... | 916.65 cum | |
| | limited to | 869.88 cum | |
| 0.00/- | ... | - = Rs | 69756.00 = |
| | embankment including line & level, complete. | | |
| | ...is MB ... | 50.54 cum | |
| | ...eited to | 48.30 cum | |
| | ...-/- ... | - = Rs | 4648.00 = |
| | ...) & passing ...filling in complete. | | |
| | ...is MB ... | 505.50 Sqm | |
| | Limited to | 69.00 Sqm | |
| | ...44/- ... | ... Rs | 306/- |

# M.A.R. 57 (Rule 116)

Measurement Book No. A/10 81358

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date 1 | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| 4) | Extra for watering the earth to bring the earth upto required optimum moisture content with machinery cost & all leads etc complete. | | | | | | |
| | Qty vide item No. (4) | 1 no | 81399 | | this MB ... | 305.50 Sqm | |
| | | | | | | 69.00 Sqm | |
| | | | | Limited to | | = Rs | 1148.00 = |
| | | | | @ Rs. 2.14/- ... | | | |
| 5) | Providing & laying in position cement mortar 1:4:2 with graded stone aggregate 40 mm nominal size mixed, concrete laid in layers not exceeding 150 mm thick, cost & all leads etc complete. | | | | | | |
| | Qty vide item No (5) | 1 no | 81399 | | this MB ... | 75.80 cum | |
| | | | | | | 72.45 cum | |
| | | | | Limited to | | = Rs | 450683/- = |
| | | | | @ Rs. 6220.61/- ... | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9) | Earthwork excavation in foundation & culvert in ordinary soil including dressing the bottom & sides & ends & trenches, shoring excavated earth close for edges as directed. Qty vide item No. (9) & page 81398 | | | | | 17.28 cum<br>16.20 cum<br>Limited to<br>= Rs. 2823/-<br>@ Rs. 174.28/- | |
| 10) | Providing & laying in position RCC M15 mix using 40mm graded metal, CA @ 0.89 cum, FA @ 0.46 cum, mixed mixed cost & all materials labour etc complete Qty vide item No. (10) & pg. 81398 | | | | | 16.40 cum<br>16.20 cum<br>Limited to<br>= Rs. 81218/-<br>@ Rs. 5013.48/- | |
| 12) | Providing & constructing granite stone masonry in CM with cm 1:6, stone hammer dressed in courses not less than 200 mm high, bond stones @ as directed Qty vide item No. (12) & Page 81399 | | | | & rich 99 - - | 8.06 cum<br>7.20 cum<br>Limited to<br>= Rs. 27344/-<br>@ Rs. 3797.80/- | |

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Numb |
|---|---|---|
| 1 | 2 | 3 |
| 12) | providing & removing centr propping etc & removal & all materials Qty vide item No (12) & pa | |
| 14) | Providing TMT steel reinf including straightening, placing in position, lappi & complete Qty vide item No. (14) | |

BOOK

| ns | | Contents | Reference to last Measurement |
|---|---|---|---|
| readth 5 | Depth 6 | 7 | 8 |
| elwork in ottom & sides ast class for | | | |
| rain ngk - - | | 17.28 cum | |
| Limited to 17h.28/- | | 16.20 cum | |
| | | - = Ko | 2883/- |
| mix M10 adle feeded @ 0.165 cum, ials labours | | | |
| this ngk - - | | 16.40 cum | |
| d to - | | 16.20 cum | |
| . 5013.48/- | | - - = Ko | 81218/- |
| asonry in fdn in courses not @ 2m apart | | | |
| rain ngg - - | | 8.06 cum | |
| Limited to | | 7.20 cum | |
| . 3797.80/- | | - - = Rs. | 27344/- |

# M.A.R. 57 (Rule 116)

Measurement Book

No. A/10

81359

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 12) | providing & removing centering, shuttering, shuttering propping etc & removal of formwork for fdn & all materials etc complete. | | | | | | |
| | Qty vide item no (12) of page 81200 of this ngk - - - Limited to @ Ko. 2345/- | | | | | 11.00 Sqm 9.59 Sqm - - = Ko. | 2245.00 |
| 14) | providing TMT steel reinforcement for RCC work including straightening, cutting bending hooking placing in position, tapping &/or welding as directed & complete. | | | | | | |
| | Qty vide item no. (14) of page 81400 of grain ngk - - - Limited to @ Ko. 77568.32/- | | | | | 0.425 Tons 0.20 Tons - - = Ko. | 15514.00 |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 15) | providing ruled pointing to coursed stone masonry with CM 1:3, 20mm deep after raking joints complete as directed. | | | | | | |
| | Extra item No (15) of type B1399 | 2 | 81.99 | | | 163.44 | Sqm |
| | | | | Limited To | | 6.00 | Sqm |
| | | | | @ Rs. 90.88/- | | Rs. | 545.00 |
| 6) | Providing & laying cement concrete using 20mm graded stone aggregate 1:2:4 mix for RC work laid in layers & well compacted including vibrating etc. for Road formation. | | | | | | |
| | for Road formation | 1 | 15.0 | (5.5+5.7)/2 | 0.10 | 8.40 | cum |
| | | 2 | 15.0 | (5.7+5.7)/2 | 0.10 | 17.10 | " |
| | | 1 | 15.0 | (5.7+5.5)/2 | 0.10 | 8.40 | " |
| | | 1 | 15.0 | (5.5+5.6)/2 | 0.10 | 8.32 | " |
| | | 1 | 15.0 | (5.6+5.5)/2 | 0.10 | 8.32 | " |
| | | | | | TOTAL | 50.54 | cum. |
| | | | | Limited to | | 48.40 | cu |
| | | | | @ Rs. 5788.65/- | | Rs. | 2725.92/- |

Checked.

3/3

S.D.O. (W)

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Numb |
|---|---|---|
| 1 | 2 | 3 |
| 7) | Vacuum dewatering with va... & compaction with ... floating disc cost ... all ... for Road formation | |

OOK

| dth | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|
| ove | Masonry | | |
| | | | |
| n HR - - | | 163.44 | Sqm |
| imited To | | 6.00 | Sqm |
| 90.88/- | | - - Rft. | 545.00 |
| | | | |
| | | | |
| | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8) | providing groove cutting for width & 6a depth 50mm to 100mm including cost of cutting machine, generator & tool & machinery etc complete as directed. | | | 5mm to 10mm | | | |
| | | 12 | 5.70 | - | - | 68.40 | Rm |
| | | | | Limited to | | 67.50 | Rm 8300-00 |
| | | | | @ Rs. 122.95/- | | = Rs. | 8299.80/- |
| 13) | providing & laying cement concrete using 20mm & d/s granite jelly & Rake finish work laid in 15cm thick layers & well compacted including vibrating curing cost & all necessary etc complete. | | | | | | |
| | Deck slab & Culvert | | | | | | |
| | culvert - 1 | 1 | 5.30 | 1.80 | 0.25 | 2.38 | cum |
| | culvert - 2 | 1 | 4.30 | 1.80 | 0.25 | 1.93 | + |
| | | | | | Total | 4.31 | cum |
| | | | | Limited to | | 4.16 | cum |
| | | | | @ Rs. 5788.65/- | | = Rs. | 23965/- |
| | | | Total Bill Amount = Rs. | | | | 978787/- |

MCDFC
Ryak 28/3/16

Assistant Engineer
Bangalore South, B.
Range South = 560092

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Nu |
|---|---|---|
| 1 | 2 | |
| | Certificate: | |
| 1) | certified that the above | |
| 2) | the contractor has d | |
| | his own risk. | |
| 3) | There are no deposits | |

28/3/16

OK

| | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|
| | 10 mm cutting complete | | |
| | - | 68.40 | Rm |
| | ted to | 67.50 | Rm |
| | 2.90/- | - =Rs. | 8299.80/- |
| | mm & dlls d is 15cm dly vibrdly ylete. | | |
| | 0.25 | 2.38 | cum |
| | 0.25 | 1.93 | + |
| | Total | 4.31 | cum |
| | Limited to | 4.11 | cum |
| | 7 38.65/- | - =Rs. | 23765/- |
| | Amount | = Rs | 978787/- |

# M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 81361

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date 1 | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| | Certificate: | | | | | | |
| 1) | Certified that the above work is completed satisfactorily. | | | | | | |
| 2) | The contractor has cleared the debris from his own website. | | | | | | |
| 3) | There are no deposits known to this work. | | | | | | |

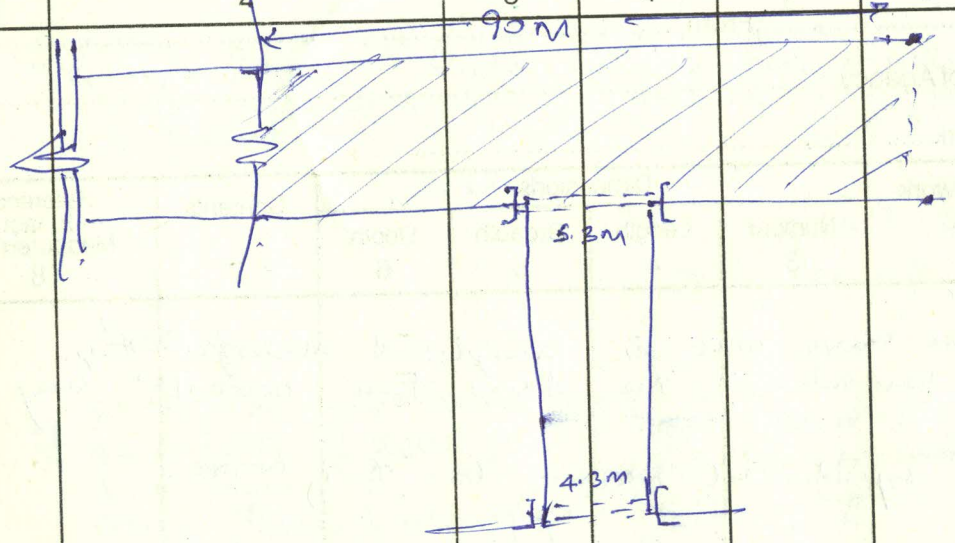
28/7/16.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪ
ಬೆಂಗಳೂರು - 560092

28/7/16

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |




Legend.

Area of carroad alone.

CC culverts.

28/3/16.

Serial No.....

Name of work.....

Name of Contractor of nature of Ag

Date of commencement of work....

| Date | Full description, etc, of work |
|---|---|
| 1 | 2 |

Audited & Admitted
9
849
and Rs 1299
Accts. Supdt,
Byatarayanapura
BBMP

| Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|
| | Legend<br>Area of cc road done.<br>IC culverts. | |

**M.A.R. 57 (Rule 116)**

Measurement Book No. A/10 81362

Serial No..... BR 299 31/3/16

Name of work..... From..... To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date 1 | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | Audited & Admitted to Rs - 9785780-00<br>84973-00<br>and Rs 129049-00<br>Accts. Supdt.,<br>Byatarayanapura Dn.<br>BBMP<br>Byatarayanapura Dn.<br>BBMP | | | | | IT - 9790-00<br>VAT - 39155-00<br>LWF - 9790-00<br>CBF - 950-00<br>ESD - 53893-00<br>SR - 15501-00<br>14/11/16 Total - 129049-00 | |